

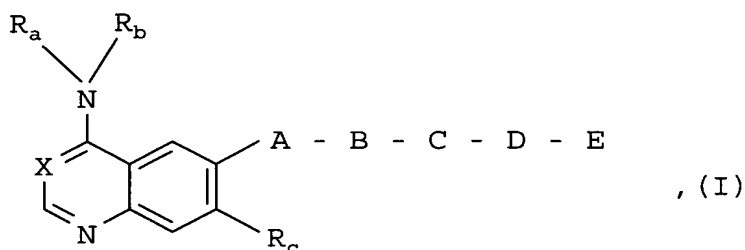
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-13 (canceled)

Claim 14 (new) A quinazoline compound of formula



wherein

R_a denotes a hydrogen atom or a C₁₋₄-alkyl group,

R_b denotes a phenyl, benzyl or 1-phenylethyl group wherein the phenyl nucleus is substituted in each case by the groups R₁ to R₃, whilst

R₁ and R₂, which may be identical or different, in each case denote a hydrogen, fluorine, chlorine, bromine or iodine atom,

a C₁₋₄-alkyl, hydroxy, C₁₋₄-alkoxy, C₃₋₆-cycloalkyl, C₄₋₆-cycloalkoxy, C₂₋₅-alkenyl or C₂₋₅-alkynyl group,

an aryl, aryloxy, arylmethyl or arylmethoxy group,

a C₃₋₅-alkenyloxy or C₃₋₅-alkynyloxy group, whilst the unsaturated moiety may not be linked to the oxygen atom,

a C₁₋₄-alkylsulfenyl, C₁₋₄-alkylsulfinyl, C₁₋₄-alkylsulfonyl, C₁₋₄-alkylsulfonyloxy, trifluoromethylsulfenyl, trifluoromethylsulfinyl or trifluoromethylsulfonyl group,

a methyl or methoxy group substituted by 1 to 3 fluorine atoms,

an ethyl or ethoxy group substituted by 1 to 5 fluorine atoms,

a cyano or nitro group or an amino group optionally substituted by one or two C₁₋₄-alkyl groups, wherein the substituents may be identical or different, or

R₁ together with R₂, if they are bound to adjacent carbon atoms, denote a -CH=CH-CH=CH group and

R₃ denotes a hydrogen, fluorine, chlorine or bromine atom,

a C₁₋₄-alkyl, trifluoromethyl or C₁₋₄-alkoxy group,

X denotes a nitrogen atom,

A denotes an imino group optionally substituted by a C₁₋₄-alkyl group,

B denotes a carbonyl group,

C denotes a -CH=C=CH-, >C=CH₂ or -CH=CH- group which may be substituted in each case by one or two methyl groups or by a trifluoromethyl group,

an -C≡C- group or

a -CH=CH-CH=CH- group optionally substituted by 1 to 4 methyl groups or by a trifluoromethyl group,

D denotes an alkylene group wherein the alkylene moiety contains 1 to 8 carbon atoms and additionally 1 to 4 hydrogen atoms in the alkylene moiety may be replaced by fluorine atoms,

E denotes an amino, C₁₋₄-alkylamino or di-(C₁₋₄-alkyl)-amino group wherein the alkyl moieties may be identical or different,

a C₂₋₄-alkylamino group wherein the alkyl moiety is substituted in β -, γ -, or δ -position with regard to the nitrogen atom of the amino group by the group R₅, whilst

R₅ denotes a hydroxy, C₁₋₄-alkoxy, amino, C₁₋₄-alkylamino or di-(C₁₋₄-alkyl)-amino group,

an N-(C₁₋₄-alkyl)-N-(C₂₋₄-alkyl)-amino group wherein the C₂₋₄-alkyl moiety is substituted in β -, γ -, or δ -position with regard to the nitrogen atom of the amino group by the group R₅, whilst R₅ is as hereinbefore defined,

a di-(C₂₋₄-alkyl)-amino group wherein the two C₂₋₄-alkyl moieties are substituted in each case in β -, γ -, or δ -position with regard to the nitrogen atom of the amino group by the group R₅, whilst the substituents may be identical or different and R₅ is as hereinbefore defined,

a C₃₋₇-cycloalkylamino or C₃₋₇-cycloalkyl-C₁₋₃-alkylamino group wherein in each case the nitrogen atom may be substituted by a further C₁₋₄-alkyl group,

R_c denotes a C₄₋₇-cycloalkoxy or C₃₋₇-cycloalkyl-C₁₋₆-alkoxy group wherein the cycloalkyl moiety in each case may be substituted by a C₁₋₃-alkyl, hydroxy, C₁₋₄-alkoxy, amino, C₁₋₄-alkylamino, di-(C₁₋₄-alkyl)-amino, hydroxy-C₁₋₂-alkyl, C₁₋₄-alkoxy-C₁₋₂-alkyl, amino-C₁₋₂-alkyl, C₁₋₄-alkylamino-C₁₋₂-alkyl, or di-(C₁₋₄-alkyl)-amino-C₁₋₂-alkyl group, whilst the abovementioned monosubstituted cycloalkyl moieties may additionally be substituted by a C₁₋₃-alkyl group,

whilst

by the aryl moieties mentioned in the definition of the abovementioned groups is meant a phenyl group which in each case may be monosubstituted by R₇, mono-, di- or trisubstituted by R₈ or monosubstituted by R₇ and additionally mono- or disubstituted by R₈, wherein the substituents may be identical or different and

R₇ denotes a cyano, carboxy, C₁₋₄-alkoxycarbonyl, aminocarbonyl, C₁₋₄-alkylaminocarbonyl, di-(C₁₋₄-alkyl)-aminocarbonyl, C₁₋₄-alkylsulphenyl, C₁₋₄-alkylsulfinyl, C₁₋₄-alkylsulfonyl, hydroxy, C₁₋₄-alkylsulfonyloxy, trifluoromethyloxy, nitro, amino, C₁₋₄-alkylamino, di-(C₁₋₄-alkyl)-amino, C₁₋₄-alkyl-carbonylamino, N-(C₁₋₄-alkyl)-C₁₋₄-alkylcarbonylamino, C₁₋₄-alkylsulfonylamino, N-(C₁₋₄-alkyl)-C₁₋₄-alkylsulfonylamino, aminosulfonyl, C₁₋₄-alkylaminosulfonyl or di-(C₁₋₄-alkyl)-aminosulfonyl group, and

R₈ denotes a fluorine, chlorine, bromine or iodine atom, a C₁₋₄-alkyl, trifluoromethyl or C₁₋₄-alkoxy group or

two groups R₈, if they are bound to adjacent carbon atoms, together denote a C₃₋₅-alkylene or 1,3-butadien-1,4-ylene group,

or the tautomers, or stereoisomers or pharmaceutically acceptable salts thereof.

Claim 15 (new) The quinazoline of formula I according to claim 14, wherein

R_a denotes a hydrogen atom,

R_b denotes a phenyl, benzyl or 1-phenylethyl group wherein the phenyl nucleus is substituted in each case by the groups R₁ to R₃, whilst

R₁ and R₂, which may be identical or different, in each case denote a hydrogen, fluorine, chlorine, bromine or iodine atom,

a C₁₋₄-alkyl, hydroxy, C₁₋₄-alkoxy, C₃₋₆-cycloalkyl, C₄₋₆-cycloalkoxy, C₂₋₅-alkenyl or C₂₋₅-alkynyl group,

an aryl, aryloxy, arylmethyl or arylmethoxy group,

a methyl or methoxy group substituted by 1 to 3 fluorine atoms,

a cyano or nitro group and

R₃ denotes a hydrogen, fluorine, chlorine or bromine atom,

a C₁₋₄-alkyl, trifluoromethyl or C₁₋₄-alkoxy group,

X denotes a nitrogen atom,

A denotes an imino group,

B denotes a carbonyl group,

C denotes a -CH=C=CH-, >C=CH₂ or -CH=CH- group,

an -C≡C- or -CH=CH-CH=CH- group,

D denotes an alkylene group wherein the alkylene moiety in each case contains 1 to 4 carbon atoms and additionally 1 to 4 hydrogen atoms in the alkylene moiety may be replaced by fluorine atoms,

E denotes a di-(C₁₋₄-alkyl)-amino group wherein the alkyl moieties may be identical or different,

an N-(C₁₋₄-alkyl)-N-(C₂₋₄-alkyl)-amino group wherein the C₂₋₄-alkyl moiety is substituted in β -, γ -, or δ -position with regard to the nitrogen atom of the amino group by the group R₅, where

R₅ denotes a hydroxy, C₁₋₄-alkoxy or di-(C₁₋₄-alkyl)-amino group,

a di-(C₂₋₄-alkyl)-amino group wherein the two C₂₋₄-alkyl moieties in each case are substituted in β -, γ -, or δ -position with regard to the nitrogen atom of the amino group by the group R₅, wherein the substituents may be identical or different and R₅ is as hereinbefore defined,

a C₃₋₇-cycloalkylamino or C₃₋₇-cycloalkyl-C₁₋₃-alkylamino group wherein in each case the nitrogen atom is substituted by a further C₁₋₄-alkyl group,

R_c denotes a C₄₋₇-cycloalkoxy or C₃₋₇-cycloalkyl-C₁₋₆-alkoxy group wherein the cycloalkyl moiety in each case may be substituted by a C₁₋₃-alkyl, hydroxy, C₁₋₄-alkoxy, di-(C₁₋₄-alkyl)-amino, hydroxy-C₁₋₂-alkyl, C₁₋₄-alkoxy-C₁₋₂-alkyl, or di-(C₁₋₄-alkyl)-amino-C₁₋₂-alkyl group, whilst the abovementioned monosubstituted cycloalkyl moieties may additionally be substituted by a C₁₋₃-alkyl group, , whilst

by the aryl moieties mentioned in the definition of the abovementioned groups is meant a phenyl group which may in each case be monosubstituted by R₇, mono-, di- or trisubstituted by R₈ or monosubstituted by R₇ and additionally mono- or disubstituted by R₈, wherein the substituents may be identical or different and

R₇ denotes a cyano, carboxy, C₁₋₄-alkoxycarbonyl, aminocarbonyl, C₁₋₄-alkylaminocarbonyl, di-(C₁₋₄-alkyl)-aminocarbonyl, C₁₋₄-alkylsulfonyl, C₁₋₄-alkylsulfinyl, C₁₋₄-alkylsulfonyl, hydroxy, C₁₋₄-alkylsulfonyloxy, trifluoromethyloxy, nitro, amino, C₁₋₄-alkylamino, di-(C₁₋₄-alkyl)-amino, C₁₋₄-alkyl-carbonylamino, N-(C₁₋₄-alkyl)-C₁₋₄-alkylcarbonylamino, C₁₋₄-alkylsulfonylamino, N-(C₁₋₄-alkyl)-C₁₋₄-alkylsulfonylamino, aminosulfonyl, C₁₋₄-alkylaminosulfonyl or di-(C₁₋₄-alkyl)-aminosulfonyl group, and

R_8 denotes a fluorine, chlorine, bromine or iodine atom, a C_{1-4} -alkyl, trifluoromethyl or C_{1-4} -alkoxy group or

two groups R_8 , if they are bound to adjacent carbon atoms, together denote a C_{3-5} -alkylene or 1,3-butadien-1,4-ylene group,

or the tautomers, or stereoisomers or pharmaceutically acceptable salts thereof.

Claim 16 (new) The quinazoline of formula I according to claim 14, wherein

R_a denotes a hydrogen atom,

R_b denotes a phenyl, benzyl or 1-phenylethyl group wherein the phenyl nucleus is substituted in each case by the groups R_1 and R_2 , where

R_1 and R_2 , which may be identical or different, in each case denote a hydrogen, fluorine, chlorine or bromine atom,

a methyl, trifluoromethyl or methoxy group,

X denotes a nitrogen atom,

A denotes an imino group,

B denotes a carbonyl group,

C denotes a $-CH=CH-$ group,

an $-C\equiv C-$ or $-CH=CH-CH=CH-$ group,

D denotes a C_{1-4} -alkylene group,

E denotes a di-(C₁₋₄-alkyl)-amino group wherein the alkyl moieties may be identical or different,

an N-(C₁₋₄-alkyl)-N-(C₂₋₄-alkyl)-amino group wherein the C₂₋₄-alkyl moiety is substituted in β -, γ -, or δ -position with regard to the nitrogen atom of the amino group by the group R₅, whilst

R₅ denotes a hydroxy, C₁₋₃-alkoxy or di-(C₁₋₃-alkyl)-amino group,

a di-(C₂₋₄-alkyl)-amino group wherein the two C₂₋₄-alkyl moieties in each case are substituted in β -, γ -, or δ -position with regard to the nitrogen atom of the amino group by the group R₅, wherein the substituents may be identical or different and R₅ is as hereinbefore defined,

a C₃₋₅-cycloalkylamino or C₃₋₅-cycloalkyl-C₁₋₃-alkylamino group wherein in each case the nitrogen atom is substituted by a further C₁₋₃-alkyl group,

R_c denotes a C₄₋₇-cycloalkoxy or C₃₋₇-cycloalkyl-C₁₋₄-alkoxy group wherein the cycloalkyl moiety in each case may be substituted by a C₁₋₃-alkyl or C₁₋₃-alkoxy group, or the tautomers, or stereoisomers or pharmaceutically acceptable salts thereof.

Claim 17 (new) The quinazoline of formula I according to claim 14, wherein

R_a denotes a hydrogen atom,

R_b denotes a phenyl, benzyl or 1-phenylethyl group, whilst the phenyl nucleus is substituted in each case by the radicals R₁ and R₂, whilst

R₁ and R₂, which may be identical or different, each denotes a hydrogen, fluorine, chlorine or bromine atom,

X denotes a nitrogen atom,

A denotes an imino group,

B denotes a carbonyl group,

C denotes a $-\text{CH}=\text{CH}-$, $-\text{C}\equiv\text{C}-$ or $-\text{CH}=\text{CH}-\text{CH}=\text{CH}-$ group,

D denotes an C_{1-3} -alkylene group,

E denotes a di- $(\text{C}_{1-4}\text{-alkyl})$ -amino group, wherein the alkyl moieties may be identical or different,

a methylamino or ethylamino group each substituted at the nitrogen atom by a 2-methoxyethyl, 1-methoxy-2-propyl, 2-methoxypropyl, 3-methoxypropyl, cyclopropyl or cyclopropylmethyl group,

a bis-(2-methoxyethyl)amino group,

R_c denotes a cyclopropylmethoxy, cyclobutylmethoxy, cyclopentylmethoxy or cyclohexylmethoxy group,

a cyclobutyloxy, cyclopentyloxy or cyclohexyloxy group,
or the tautomers, or stereoisomers or pharmaceutically acceptable salts thereof.

Claim 18 (new) The quinazoline of formula I according to claim 14, wherein

R_a denotes a hydrogen atom,

R_b denotes a 1-phenylethyl group or a phenyl group wherein the phenyl nucleus is substituted by the radicals R_1 and R_2 , whilst

R₁ and R₂, which may be identical or different, each denote a hydrogen, fluorine, chlorine or bromine atom,

X denotes a nitrogen atom,

A denotes an imino group,

B denotes a carbonyl group,

C denotes a -CH=CH-, -C≡C- or -CH=CH-CH=CH- group,

D denotes a methylene group,

E denotes a dimethylamino, diethylamino, Bis(2-methoxyethyl)amino, *N*-methyl-*N*-(2-methoxyethyl)amino, *N*-ethyl-*N*-(2-methoxyethyl)amino, *N*-methyl-*N*-cyclopropylamino, *N*-methyl-*N*-cyclopropylmethyl-amino, *N*-methyl-*N*-(1-methoxy-2-propyl)amino, *N*-methyl-*N*-(2-methoxypropyl)amino or *N*-methyl-*N*-(3-methoxypropyl)amino group,

R_c denotes a cyclopropylmethoxy, cyclobutyloxy or cyclopentyloxy group,

or the tautomers, or stereoisomers or pharmaceutically acceptable salts thereof.

Claim 19 (new) The following compound of general formula I according to claim 14:

4-[(3-Chloro-4-fluorophenyl)amino]-6- {[4-(*N,N*-diethylamino)-1-oxo-2-buten-1-yl]amino}-7-cyclopropylmethoxyquinazoline

or a pharmaceutically acceptable salt thereof.

Claim 20 (new) The physiologically acceptable salt of a compound according to one of claims 14 to 19 with an inorganic or organic acid or base.

Claim 21 (new) A pharmaceutical composition comprising a compound according to claim 20, together with an inert carrier and with or without a diluent.

Claim 22 (new) A method for treating a disease comprising administering a pharmaceutical composition according to claim 21, wherein said disease is selected from the group consisting of: malignant tumors, diseases of the airways and lungs and diseases of the gastrointestinal tract and the bile duct and gall bladder.